

TÜBİTAK Project Assistant

We have open positions in a TÜBİTAK research project conducted by Department of Electronics and Communication Engineering, Istanbul Technical University.

Project Start Date: May 2023 (duration is 30 months)

Number of Positions: 4 (1 undergraduate, 3 graduate students)

These positions provide a monthly stipend of 9.920 TL for PhD students, 7.275 TL for MSc students and 2.180 TL for BSc students. (<https://www.tubitak.gov.tr/tr/destekler/akademik/ulusal-destek-programlari/icerik-1001-bilimsel-ve-teknolojik-arastirma-projelerini-destekleme-programi>)

Project Title: Design of a patient adaptive digital breast tomosynthesis

Project Summary: Within the scope of this project, it is aimed to design a new 3-dimensional low-dose patient adaptive breast imaging system, which will address the limitations of commercial digital breast tomosynthesis systems such as the increased dose compared to mammography, unrealistic assumptions (uniformity assumption of breast in spatial and frequency space), far from being patient specific or dependent, and the fact that different brands have very different geometries and scan parameters.

Qualifications:

- * Programming skills in Python or/and C++
- * Background or strong interest in medical imaging
- † Experience on PyTorch library specifically on image and/or 3D analysis
- † To be familiar with other data and image processing libraries such as; Numpy, Pandas, OpenCV
- † Practical experience on developing and training deep CNNs
- * Proficiency in English

*: mandatory, †: desired

Interested students should contact Assoc. Prof. Dr. İsa Yıldırım (isayildirim@gmail.com) with their CV, BSc and graduate (if available) transcripts and a short motivation letter.